

Application No.: 09/997,898

Docket No.: H0610.0044/P044

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) Reactor for carrying out non-adiabatic catalytic reactions comprising a metallic ingot and comprising one or more at least one reaction passages extending through the ingot and being adapted to hold a catalyst for non-adiabatic conversion of a feedstock;

inlet passages for introduction of the feedstock into the reaction passage and outlet passages for withdrawing reacted feedstock, the inlet and outlet passages being provided within the ingot, being substantially perpendicular to the reaction passages and connecting the reaction passages in a parallel manner; and

heating or cooling means for maintaining the catalytic reactions within the reaction passage.

2. (Currently Amended) The reactor of claim 1, wherein a number of the reaction passages is are arranged in parallel rows within the ingot.

3. (Cancelled).

4. (Currently Amended) The reactor of claim 1, wherein the heating or cooling means are arranged within and/or at a surface of the ingot.

5. (Original) The reactor of claim 1, wherein the heating or cooling means is provided in a substantially perpendicular direction with the reaction passages.

6. (Currently Amended) The reactor of claim 1, wherein the heating means is in form of an electrical heater.

Application No.: 09/997,898

Docket No.: H0610.0044/P044

7. (Currently Amended) A reactor containing a ~~number~~ plurality of the metallic ingots according to claim 1.

8. (Currently Amended) The reactor of claim 7, wherein ~~the number of~~ the metallic ingots ~~is~~ are arranged within a common shell.

9. (Original) The reactor of claim 8, wherein the common shell is heat insulated.

10. (Currently Amended) The reactor according to claim 1, wherein the reaction passages and the outlet and inlet passages are in the form of drilled channels.

11. (Currently Amended) The reactor according to claim 2, wherein the reaction passages and the outlet and inlet passages are in the form of drilled channels.

12. (Cancelled).

13. (Currently Amended) The reactor according to claim 4, wherein the reaction passages and the outlet and inlet passages are in the form of drilled channels.

14. (Currently Amended) The reactor according to claim 5, wherein the reaction passages and the outlet and inlet passages are in the form of drilled channels.

15. (Currently Amended) The reactor according to claim 6, wherein the reaction passages and the outlet and inlet passages are in the form of drilled channels.

16. (Currently Amended) The reactor according to claim 7, wherein the reaction passages and the outlet and inlet passages are in the form of drilled channels.

Application No.: 09/997,898

Docket No.: H0610.0044/P044

17. (Currently Amended) The reactor according to claim 8, wherein the reaction passages and the outlet and inlet passages are in the form of drilled channels.

18. (Currently Amended) The reactor according to claim 9, wherein the reaction passages and the outlet and inlet passages are in the form of drilled channels.